

Technical Data Sheet (TDS)

Liposomal Vitamin C – 80% Purity

Liposomal Vitamin C powder is the Microencapsulated Vitamin C coated with corn starch and phospholipids with liposomal technology.

1. Product Identification

Component	Specification
Product Name	Liposomal Vitamin C Powder
Active Ingredient	L-Ascorbic Acid (Vitamin C)
Encapsulation Technology	Liposomal delivery system (phospholipid bilayer)
Manufacturer	LiposoMore-Joyful Nutritional Supply Co., Ltd.
CAS No.	50-81-7
HS Code	29362700
Molecular Formula	C ₆ H ₈ O ₆
Molecular Weight	176.12 g/mol

2. Composition

Component	Content (w/w)
Liposomal Vitamin C	≥ 80.0%
Phospholipids	≤ 15.0%
Carrier	≤ 5.0%
Moisture	≤ 5.0%

3. Physical & Chemical Properties

Property	Specification
Appearance	Pale yellow to light beige powder
Odor	Mild, characteristic
Solubility	Dispersible in water
Taste	Slightly sour
Particle Size (D90)	< 200 μm
pH (1% aqueous solution)	3.0 – 4.0
Bulk Density	0.35 – 0.55 g/cm ³
Tapped Density	0.45 – 0.65 g/cm ³

4. Functional Claims & Benefits

- High bioavailability due to liposomal delivery
- Protected against oxidative degradation

- Enhanced cellular absorption
- Supports immune system and collagen synthesis
- Suitable for food, beverage, and nutraceutical applications

5. Microbiological Specifications

Parameter	Limit
Total Plate Count	< 10,000 CFU/g
Yeast & Mold	< 100 CFU/g
E. coli	Negative/10g
Salmonella	Negative/25g
Staphylococcus aureus	Negative/10g

6. Heavy Metals

Element	Specification
Lead (Pb)	< 1.0 ppm
Arsenic (As)	< 1.0 ppm
Cadmium (Cd)	< 0.5 ppm
Mercury (Hg)	< 0.1 ppm

7. Shelf Life & Storage

Shelf Life: 24 months from production date

Storage Conditions:

- Store in a cool, dry place (below 25°C)
- Avoid direct sunlight, high humidity, and heat
- Keep the product in tightly sealed original packaging

8. Packaging

Standard Packaging:

- 1 kg/aluminum foil bag, vacuum-sealed
- 10 kg/carton or 25 kg/drum

Customization: Available upon request

9. Applications

- Functional foods & beverages
- Effervescent powders
- Nutritional gummies & tablets
- Liposomal supplement sachets
- Skin health & anti-aging formulations

10. Certifications & Compliance

- Non-GMO
- Allergen-Free (gluten, dairy, soy optional based on lecithin source)
- Vegan / Vegetarian Suitable
- ISO 9001 / ISO 22000
- GMP Certified
- Halal / Kosher (if applicable)

11. Additional Information

- Encapsulation Efficiency: $\geq 90\%$
- Method of Preparation: Ultrasonic dispersion and membrane emulsification
- Liposomal Particle Size: 100–200 nm (confirmed via DLS or TEM)
- Advantages over Conventional Vitamin C:
 - Reduced gastric irritation
 - Extended blood plasma half-life
 - Targeted intracellular delivery

12. Contact us:



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